

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A vibrating portable electronic device ~~(MT)~~, comprising:
 - a body ~~(15)~~;
 - a driving axle ~~(13A)~~ having a rotational axis about which it rotates, the driving axle being rotatably supported by the body;
 - a weight unit ~~(12A&12B;61A&61B)~~ comprising at least two weight ~~(12A,12B;61A,61B)~~ elements, the weight unit having a total mass m and being coupled to the driving axle ~~(13A)~~ for being rotated about the rotational axis of the driving axle;
 - wherein the weight unit ~~(12A&12B;61A&61B)~~ has a mass center with an offset r with respect to the rotational axis, so that the vibration of the portable device assumes an amplitude of vibration depending on the product of the offset r and the mass m ;
 - an electrical motor ~~(11A)~~ for rotating the driving axle, ~~[[;]]~~ and ~~characterized in that the electrical motor (11A) is adapted to adjust the product of the offset r and the mass m ;~~
 - wherein the electrical motor is adapted to adjust the angular disposition of the at least two weight elements ~~(12A, 12B)~~ in a first angular direction in order to change the offset r to a desired level within a predetermined range; and
 - wherein the device further comprises a member ~~(51, 65, 66)~~ for forming a force that tries to change said adjusted angular disposition of the weight elements in a second angular direction opposite to the first angular direction in order to maintain the offset r on said desired level within said predetermined range.
2. (Cancelled)
3. (Cancelled)

4. (Currently Amended) A vibrating portable electronic device according to claim 1, ~~wherein characterized in that~~ the weight elements (12A,12B) are on a same axial side with regard to the electrical motor (11A).
5. (Currently Amended) A vibrating portable electronic device according to claim 1, in that the weight unit comprises a weight element (12A,12B) on each side of the electrical motor (11A).
6. (Currently Amended) A vibrating portable electronic device according to claim 1, ~~characterized in that the device further comprises~~ comprising another electrical motor (11B) and a separate driving axle (13B) for the another electrical motor.
7. (Currently Amended) A vibrating portable electronic device according to claim 6, ~~characterized in that the device preferably comprises~~ comprising a controller (CPU) for controlling the operation of the electrical motors (11A,11B).
8. (Currently Amended) A vibrating portable electronic device according to claim 1, ~~characterized in that~~ wherein the electrical (11A) motor is capable of adjusting the product substantially down to zero.
9. (Currently Amended) A vibrating portable electronic device according to claim 1, ~~characterized in that~~ wherein the weight elements (12A,12B) have a common rotational axis and face each other.
10. (Currently Amended) A vibrating portable electronic device according to claim 1, ~~characterized in that the device further comprises~~ comprising means (13A,12A2) for allowing the weight elements (12A,12B) to move with respect to each other in order to adjust said offset r.
11. (Currently Amended) A vibrating portable electronic device according to claim 10, ~~characterized in that~~ wherein the means (13A,12A2) for allowing the weight elements

(12A,12B) to move with respect to each other is adapted to turn the weight elements to a different angular disposition about the driving axle (13A) and with respect to each other.

12. (Currently Amended) A vibrating portable electronic device according to claim 1, ~~characterized in that the device further comprises~~ comprising a resilient member (51) for forming an angular torsion force that tries to change the angular disposition of the weight elements with respect to each other to a first angular direction.
13. (Currently Amended) A vibrating portable electronic device according to claim 7, ~~characterized in that~~ wherein the controller (CPU) is adapted to adjust the rotating power of the electrical motors (11A,11B) so that a desired difference in rotating forces forms equal to the torsion force at the desired amount of the angular disposition.
14. (Currently Amended) A vibrating portable electronic device according to claim 1, ~~characterized in that~~ wherein two different angular dispositions of weight elements (12A,12B) are realized by choice of a running electrical motor among two electrical motors (11A,11B).
15. (Currently Amended) A vibrating portable electronic device according to claim 1, ~~characterized in that~~ wherein the electrical motor (11A) is adapted to adjust the product responsive to at least one electrical signal.
16. (Currently Amended) A vibrating portable electronic device according to claim 15, ~~characterized in that~~ wherein the electrical signal is selected from a group consisting of: a ringing tone signal, an alarm signal, a notification signal, or a messaging signal.
17. (Currently Amended) A method ~~for vibrating a portable electronic device comprising the steps of:~~

providing ~~[[the]]~~ a portable electronic device with a weight unit having a mass m and a mass center;

providing the device with a driving axle and an electrical motor;

coupling the electrical motor, driving axle and weight unit;

rotating the weight unit around a rotational axis by the electrical motor using the driving axle;

positioning the mass center at an offset r with respect to the rotational axis for vibrating the device with an amplitude depending on the product of the offset r and the mass m ;

~~characterized in that the method further comprises the step of:~~

adjusting the product of the offset r and the mass m by the electrical motor rotating the weight unit in a first angular direction, in order to change the offset r to a desired level within a predetermined range; ~~and a member applying a force in a second angular direction opposite to the first angular direction.~~

forming a force by a member that tries to change the angular disposition of the weight unit in a second angular direction opposite to the first angular direction in order to maintain the offset r on said desired level within said predetermined range.

18. (Currently Amended) A method according to claim 17, ~~characterized by wherein~~ said adjusting occurring during the rotating of the weight unit.
19. (Currently Amended) A method according to claim 18, ~~characterized by wherein~~ the adjusting occurring in response to a triggering event selected from a group consisting of the following: the rotation speed of the weight unit changing to a predetermined level, the rotation speed of the weight unit changing, a change in a melody being played by the portable electronic device, receiving a message, receiving a message from a particular sender, receiving a particular type of message, reaching a time of day, and reaching a date.

20. (Currently Amended) A method, ~~of messaging by vibrating a portable electronic device having coupled an electrical motor, a driving axle and a weight unit having a mass m with a mass center; the method comprising the steps of:~~
- receiving a message;
 - rotating ~~[[the]]~~ a weight unit having a mass m with a mass center around a rotational axis by ~~[[the]]~~ an electrical motor using [[the]] a driving axle;
 - positioning the mass center at an offset r with respect to the rotational axis for vibrating ~~[[the]]~~ a portable electronic device with an amplitude depending on the product of the offset r and the mass m;
 - ~~characterized in that the method further comprises the step of:~~
 - adjusting in accordance with the message the product of the offset r and the mass m by the electrical motor rotating the weight unit in a first angular direction, in order to change the offset r to a desired level within a predetermined range; and ~~and a member applying a force in a second angular direction opposite to the first angular direction.~~
 - forming a force by a member that tries to change the angular disposition of the weight unit in a second angular direction opposite to the first angular direction in order to maintain the offset r on said desired level within said predetermined range.
21. (Currently Amended) A vibrating portable electronic device ~~(MT)~~, comprising:
- a body ~~(15)~~;
 - a driving axle ~~(13A)~~ having a rotational axis about which it rotates, the driving axle being rotatably supported by the body;
 - a weight unit ~~(12A&12B;61A&61B)~~ comprising at least one weight ~~(12A,12B;61A,61B)~~ element, the weight unit having a total mass m and being coupled to the driving axle ~~(13A)~~ for being rotated about the rotational axis of the driving axle;
 - wherein the weight unit ~~(12A&12B;61A&61B)~~ has a mass center with an offset r with respect to the rotational axis, so that the vibration of the portable device assumes an amplitude of vibration depending on the product of the offset r and the mass m;

an electrical motor (11A) for rotating the driving axle; ~~and characterized in that the electrical motor (11A) is adapted to adjust the product of the offset r and the mass m;~~

~~characterized in that wherein~~ the device further comprises another electrical motor (11B) and a separate driving axle (13B) for the another electrical motor;

~~characterized in that wherein~~ the device further comprises a controller (CPU) for controlling the operation of the electrical motors (11A, 11B); and

wherein the controller (CPU) is adapted to adjust the rotating power of the electrical motors (11A, 11B) so that a desired difference in rotating forces forms equal to the torsion force at the desired amount of the angular disposition.

22. (Currently Amended) A vibrating portable electronic device (MT), comprising:

a body (15);

a driving axle (13A) having a rotational axis about which it rotates, the driving axle being rotatably supported by the body;

a weight unit (12A & 12B; 61A & 61B) comprising at least two weight (12A, 12B; 61A, 61B) elements, the weight unit having a total mass m and being coupled to the driving axle (13A) for being rotated about the rotational axis of the driving axle;

wherein the weight unit (12A & 12B; 61A & 61B) has a mass center with an offset r with respect to the rotational axis, so that the vibration of the portable device assumes an amplitude of vibration depending on the product of the offset r and the mass m;

an electrical motor (11A) for rotating the driving axle; ~~and characterized in that the electrical motor (11A) is adapted to adjust the product of the offset r and the mass m;~~ and

~~characterized in that wherein~~ two different angular dispositions of weight elements (12A, 12B) are realized by choice of a running electrical motor among two electrical motors (11A, 11B).